

Rec'd PCT/PTO 15 OCT 2004

10/511387

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11207

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04J 3/12; H04N 7/10; H03H 15/00; G06F 11/10

US CL : 714/795; 375/233; 725/124; 370/526

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 714/795, 746, 754, 774; 375/233, 341; 725/124; 370/526

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,327,709 B1 (OVADIA et al) 04 December 2001, see figs. 3, 4 and col.5, lines 59-60	1-25
Y	US 6,266,350 B1 (OJARD et al) 24 July 2001 see figs. 7, 13 and col.14, lines 25-67 and col.15, lines 5-28	1-25
Y	US 6,356,586 B1 (KRISHNAMOORTHY et al) 12 March 2002 see figs. 2-4 and col.2, lines 40-63 and col.3, lines 38-56 and col.4, lines 9-67	1-25
Y	US 6,347,391 B1 (UESUGI et al) 12 February 2002 see fig. 13 and col.9, lines 1-55	1-25

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Further documents are listed in the continuation of Box C.

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See patent family annex.

* Special categories of cited documents:		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Z"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

10 JUNE 2003

Date of mailing of the international search report

08 JUL 2003

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